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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s): Michael C. Adler, et al.  
Serial No.: 09/332,263 Art Unit: 2127  
Filed: June 11, 1999 Examiner: Kenneth Tang  
Title: PROFILING PROGRAM EXECUTION BY DENSE TRACE PROFILING AND  
STATISTICAL PROFILING

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450


In accordance with 37 C.F.R. §§1.56, 1.97 and 1.98, Applicant wishes to make of record the items listed on the accompanying Form PTO-1449. Applicant respectfully requests the Examiner to fully consider the items and independently ascertain their teaching before issuance of the next action, and to make them of record in the file. The Examiner is also requested to initial and return a copy of the enclosed Form PTO-1449 to evidence such consideration.

1. The references listed on the enclosed Form 1449 are references that have come to light in applications listed in the Information Disclosure Statement of November 2000. Applicant has not reviewed all of them in detail. Of those that have been reviewed, none of the references are believed to be any more pertinent than the references provided in earlier IDS' and Forms 1449. However, in an abundance of caution, Applicant requests that they be considered.

2. For non-patent items listed on the enclosed Form PTO-1449 for which a copy is not already made of record in this application, a copy was previously cited by or submitted to the Patent and Trademark Office in application Serial No. 09/239,194, filed January 28, 1999, Yates et al., Executing Programs for a First Computer Architecture on a Computer of a Second Architecture, or in application Serial No. 09/322,443, filed May 28, 1999, Reese et al., Profiling of Computer Programs Executing in Virtual Memory Systems.

3. This Information Disclosure Statement it is being filed at a time when prosecution is closed, but may be reopened on withdrawal or reversal of all pending rejections. In the event of

I certify that this correspondence, along with any documents referred to therein, is being transmitted by FAX on August 17, 2004 to The Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



reopening of prosecution, entry of this Information Disclosure Statement is proper on payment of a fee pursuant to 37 C.F.R. §1.97(c)(2). Upon such entry, charge the fee due under C.F.R. §1.17(i)(1) to Deposit Account 23-2405, Order No. 114596-08-4015.

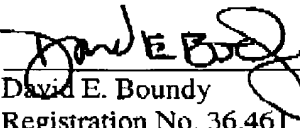
The Commissioner is hereby authorized to charge any additional fees that may be required for this Information Disclosure Statement, or credit any overpayment, to Deposit Account 23-2405, Order No. 114596-08-4015.

Respectfully submitted,

WILLKIE FARR & GALLAGHER, LLP

Dated: August 17, 2004

By:

  
David E. Boundy  
Registration No. 36,461

Mailing Address:  
WILLKIE FARR & GALLAGHER, LLP  
787 Seventh Ave.  
New York, New York 10019  
(212) 728-8000  
(212) 728-8111 Fax

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
114596-08-4015SERIAL NO.  
09/332,263**INFORMATION DISCLOSURE CITATION**

(Use several sheets if necessary)

APPLICANT

Michael C. Adler, et al.

FILING DATE

June 11, 1999

GROUP ART UNIT

2127

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,412,303	10/25/1983	Barnes	712	16	Oct. 25, 1983
	4,636,940	01/1987	Goodwin	717	128	Dec. 20, 1985
	4,750,112	06/07/1988	Jones	364	200	Feb. 10, 1984
	5,043,878	08/1991	Ooi	712	42	
	5,127,092	06/30/1992	Gupta	712	234	Jun. 15, 1989
	5,168,557	12/01/1992	Shibuya	712	207	Sep. 21, 1989
	5,241,638	08/31/1993	Mork	711	207	Aug. 12, 1995
	5,339,422	8/16/1994	Brender	714	4	Mar. 7, 1991
	5,355,487	11/11/1994	Keller	717	127	Jul. 23, 1993
	5,386,563	01/31/1995	Thomas	712	228	Oct. 13, 1992
	5,404,476	04/04/1995	Kadaira	711	207	Mar. 9, 1993
	5,479,616	12/26/1995	Garibay	712	212	Apr. 3, 1992
	5,483,647	01/09/1996	Yu	713	100	Dec. 17, 1992
	5,487,156	01/23/1996	Popsescu	712	217	Dec. 5, 1990
	5,507,028	04/09/1996	Liu	395	375	Jan. 9, 1995
	5,560,013	09/24/1996	Scalzi	717	138	Dec. 6, 1994
	5,574,929	11/12/1996	Pieterse	712	30	Jun. 30, 1994
	5,590,309	12/31/1996	Chencinski	395	472	Apr. 1, 1994
	5,613,114	3/1997	Anderson	718	108	
	5,613,118	03/18/1997	Heisch	395	709	Jun. 20, 1994
	5,625,835	4/1997	Ebcioğlu	712	23	
	5,657,474	08/12/1997	Taine	711	163	Nov. 20, 1995
	5,659,782	08/19/1997	Senter	712	23	Sep. 16, 1994
	5,673,407	09/30/1997	Poland	395	375	Mar. 8, 1994
	5,732,238	03/24/1998	Sarkozy	711	135	Jun. 12, 1996
	5,742,780	04/21/1988	Caulk	395	382	Jan. 16, 1997
	5,764,947	06/09/1998	Murphy	703	20	Mar. 2, 1994
	5,781,758	07/14/1998	Morley	395	500	Mar. 23, 1995
	5,802,337	09/01/1998	Fielden	712	216	Dec. 29, 1995
	5,805,877	09/08/1998	Black	395	586	Sep. 23, 1996
	5,812,864	09/22/1998	McCoy	703	26	Dec. 6, 1995
	5,815,720	9/29/1998	Buzbee	717	158	Mar. 15, 1996
	5,819,064	10/06/1998	Razdan	703	27	Nov. 8, 1995

EXAMINER

DATE CONSIDERED

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FORM PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 114596-08-4015		SERIAL NO. 09/332,263	
<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)				APPLICANT Michael C. Adler, et al.			
				FILING DATE June 11, 1999		GROUP ART UNIT 2127	
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	5,838,962	11/17/1998	Larson	395	586	Apr. 9, 1997	
	5,854,913	12/29/1998	Goetz	712	210	Jun. 10, 1997	
	5,864,697	01/26/1999	Shiell	712	240	Jun. 27, 1997	
	5,870,763	02/09/1999	Lomet	707	202	Mar. 10, 1997	
	5,903,750	05/11/1999	Yeh	712	236	Nov. 20, 1996	
	5,903,751	05/11/1999	Hoyt	395	585	Sep. 16, 1997	
	5,911,073	06/08/1999	Mattson	395	701	Dec. 23, 1997	
	5,941,827	02/1996	Holtey	711	163	Jan. 14, 1994	
	5,960,198	09/28/1999	Roediger	717	130	Mar. 19, 1997	
	5,966,537	10/1999	Ravichandran	717	158		
	5,968,162	10/19/1999	Yard	712	203	Apr. 2, 1996	
	5,983,335	11/09/1999	Dwyer	712	23	Apr. 30, 1997	
	6,006,033	12/21/1999	Heisch	717	158	Aug. 15, 1994	
	6,006,277	12/21/1999	Talati	709	313	Jan. 26, 1996	
	6,021,484	02/01/2000	Park	712	41	Nov. 14, 1997	
	6,029,222	02/22/2000	Kamiya	710	262	Jan. 10, 1997	
	6,044,220	03/28/2000	Breternitz	717	139	Feb. 25, 1997	
	6,044,221	03/28/2000	Gupta	717	151	May 9, 1997	
	6,047,363	04/2000	Lewchuk	711	213	Oct. 14, 1997	
	6,047,390	04/2000	Butt	714	43		
	6,061,711	05/2000	Song	718	108		
	6,071,317	06/2000	Nagel	717	128		
	6,076,144	6/13/2000	Peled	711	125	Dec. 1, 1997	
	6,092,188	07/18/2000	Corwin	712	239	Jul. 7, 1999	
	6,115,809	09/05/2000	Mattson	712	239	Apr. 30, 1998	
	6,119,218	9/2000	Arora	712	207		
	6,141,683	10/31/2000	Kraml	709	220	Jan. 30, 1998	
	6,195,748	02/27/2001	Chrysos	712	227	Nov. 26, 1997	
	6,202,205	03/13/2001	Saboff	717	9	Jul. 21, 1998	
	6,205,545	03/20/2001	Shah	712	237	Apr. 30, 1998	
	6,212,493	04/03/2001	Huggins	703	22	Dec. 1, 1998	
	6,233,678	05/15/2001	Bala	712	240	Nov. 5, 1998	
EXAMINER			DATE CONSIDERED				

FORM PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 114596-08-4015		SERIAL NO. 09/332,263	
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<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	6,237,074	05/22/2001	Phillips	711	213	May 26, 1995	
	6,243,804	06/05/2001	Cheng	712	228	Jul. 22, 1998	
	6,256,728	07/03/2001	Witt	712	236	Jul. 6, 1998	
	6,260,191	07/10/2001	Santhanam	717	9	Apr. 7, 1997	
	6,289,445	09/2001	Ekner	712	244		
	6,295,644	09/25/2001	Hsu	717	9	Aug. 17, 1999	
	6,298,477	10/02/2001	Kessler	717	145	Oct. 30, 1998	
	6,304,948	10/16/2001	Motoyama	711	162	Oct. 6, 1998	
	6,308,318	10/23/2001	Krishnaswamy	717	139	Oct. 7, 1998	
	6,308,321	10/23/2001	Schooler	717	132	Dec. 11, 1998	
	6,336,135	01/01/2002	Niblett	709	215	Nov. 19, 1998	
	6,351,844	2/26/2002	Bala	717	128	Nov. 5, 1998	
	6,353,924	03/05/2002	Ayers	717	128	Feb. 8, 1999	
	6,363,336	03/26/2002	Banning	703	26	Oct. 13, 1999	
	6,374,367	03/26/2002	Dean	714	37	Nov. 26, 1997	
	6,381,628	04/30/2002	Hunt	709	201	Nov. 20, 1998	
	6,381,735	04/30/2002	Hunt	717	158	Nov. 20, 1998	
	6,453,292	09/17/2002	Ramaswamy	704	235	Oct. 28, 1998	
	6,470,442	10/22/2002	Arimilli	712	32	Jul. 30, 1999	
	6,473,846	10/29/2002	Melchior	711	170	Jun. 16, 2000	
	6,481,007	11/2002	Iyer	717	151		
	6,496,923	12/17/2002	Gruner	712	213	Dec. 17, 1999	
	6,549,930	04/15/2003	Chrysos	709	104	Nov. 26, 1997	
	6,557,094	04/29/2003	Pechanek	712	209	Sep. 28, 2001	
	6,560,693	05/06/2003	Puzak	712	207	Dec. 10, 1999	
	6,571,331	05/27/2003	Henry	712	239	Apr. 3, 2001	
	6,591,414	07/08/2003	Hibi	717	151	Oct. 3, 1997	
	6,631,514	10/07/2003	Le	717	137		
	6,631,518	10/07/2003	Bornikov	717	158	Mar. 19, 1997	
	6,678,820	01/2004	Kahle	712	239	Mar. 30, 2000	
EXAMINER			DATE CONSIDERED				

FORM PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 114596-08-4015	SERIAL NO. 09/332,263
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				FILING DATE June 11, 1999	GROUP ART UNIT 2127
<b>OTHER DOCUMENTS</b> (Including Author, Title, Date, Pertinent Papers, Etc.)					
		Ammons, Ball and Larus: Exploiting Hardware Performance Counters with Flow and Context Sensitive Profiling, Proceedings of the ACM SIGPLAN 1997 Conference on Programming Language Design and Implementation, pp. 85-96 (1997)			
		Brad Calder, Peter Feller, Alan Eustace, Value Profiling, Proceedings of 30th International Symposium on Microarchitecture (Micro-30), IEEE, pages 259-269 (December 1-3, 1997)			
		Compaq Computer Corp., Compiler Writer's Guide for the Alpha 21264 (1999) <a href="http://www.alphalinux.org/archives/axp-list/June1999/0475.html">www.alphalinux.org/archives/axp-list/June1999/0475.html</a>			
		R.E. Hank, et al., "Region-Based Compilation: An Introduction and Motivation" Proceedings of the 28th Annual International Symposium on Microarchitecture, pp. 158-168 (Dec. 1995)			
		Reiner W. Hartenstein, Jürgen Becker: Performance Analysis in CoDe-X Partitioning for Structural Programmable Accelerators; Proc. of 5th Int'l Workshop on Hardware/Software Co-Design CODES/CASHE '97, Braunschweig, Germany, p. 141 (March 1997)			
		Hollingsworth, Critical Path Profiling of Message Passing and Shared-Memory Programs, IEEE Transactions on Parallel and Distributed Systems vol. 9, no. 10, pp. 1029-1040 (October 1998)			
		Intel Corporation, Intel Processor Family Developer's Manual (1997), pages 1-1 to 1-6, 2-1 to 2-20			
		Intel Corporation, Intel Processor Family Developer's Manual (1997), vol. 3 (Architecture and Programming Manual), pages 3-1 to 3-3, 3-10 to 3-13, 12-1 to 12-27, 14-1 to 14-30			
		Jones, Puzzling with Microcode, ACM SIGARCH Computer Architecture News, vol. 11, no. 5, pp. 8-12 (1983)			
		Kavi et al., A Performability Model for Soft Real-Time Systems, IEEE Proceedings of the 27th Annual Hawaii International Conference on System Sciences, pp. 571-579 (1994)			
		Kim and Tyson: Analyzing the Working Set Characteristics of Branch Execution, Proceedings of the 31st Annual ACM/IEEE International Symposium on Microarchitecture, pp. 49-58 (Dec. 1998)			
		Monica S. Lam, Robert P. Wilson, Limits of Control Flow on Parallelism, Proceedings of the 19th Annual International Symposium on Computer Architecture, p.46-57 (May 1992)			
		Larus and Schnarr: EEL: Machine-Independent Executable Editing, EEL: Machine-independent executable editing. In Proceedings of the ACM SIGPLAN Conference on Programming Language Design and Implementation (PLDI), 1995			
		M. Lipasti and J. Shen. Exceeding the Data-Flow Limit Via Value Prediction, 29th International Symposium on Microarchitecture, pages 226-237, IEEE (Dec. 1996)			
		Magnusson and Werner, Efficient Memory Simulation in SimICS, Proceedings of the 28th Annual Simulation Symposium, IEEE, pp. 62-73 (1995).			
		Mueller, Rustagi and Baker: MiThOS - A Real-Time Micro-Kernel Threads Operating System, IEEE Real-Time Systems Symposium 1995: pp. 49-55 (1995)			
		Park et al., Evaluation of Scheduling Techniques on a SPARC-Based VLIW Testbed, Proceedings of the 30th annual ACM/IEEE international symposium on Microarchitecture, pp. 104-113 (1997)			
EXAMINER			DATE CONSIDERED		

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Sheet 3 of 3

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